

### **Abstract**

The invention relates to a halogen-free composite film consisting of at least one to N sealable, multi-layered laminated film(s), wherein N is an integer from 2 to 10, and in which a functional layer and/or a functional element is present between the individual laminated films. In addition, the invention relates to a process for manufacturing the halogen-free composite film and its use as a flexible, multi-purpose material.

10031766.012302

[Keys for figures:]

[Fig. 1]

	Film (1)
Laminated	Laminating lacquer (2)
film A	Film (3)
	Thermally activated layer (4)
functional	
layer	

	Thermally activated layer (4)
Laminated	Film (3)
film B	Laminating lacquer (2)
	Film (1)

[Fig. 2A]

Laminated film	Film (1)
with	vacuum metallization with Cu
shielding	Laminating lacquer (2)
on the inside	Film (3)

[Fig. 2B]

Laminated film

with

shielding

on the outside

Protective lacquer

Vacuum metallization with Cu

Film (1)

Laminating lacquer (2)

Film (3)

10031756-012302